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(FILE 'HOME' ENTERED AT 17:00:19 ON 28 JAN 2004)

FILE 'CA' ENTERED AT 17:00:38 ON 28 JAN 2004

L1 54747 S DTA OR DIFFERENT? (1A) (THERMAL OR TEMPERATURE) (2A) (ANALY? OR MEASUR?)
L2 3143 S L1 AND CATALY?
L3 137 S L1 AND((MULTIPLE OR MULTI OR PLURAL? OR THREE OR FOUR OR FIVE OR SIX) (2A) (CELL OR SAMPLE)OR MULTICELL OR MULTISAMPLE)
L4 12 S L2 AND L3
L5 8 S L1 AND((MULTIPLE OR MULTI OR PLURAL? OR THREE OR FOUR OR FIVE OR SIX) (2A) (CELL OR SAMPLE)OR MULTICELL OR MULTISAMPLE)/TI,IT,ST
L6 97352 S DSC OR DIFFERENT? SCANNING CALORIM? OR THERMAL ANALY?
L7 272 S L6 AND((MULTIPLE OR MULTI OR PLURAL? OR THREE OR FOUR OR FIVE OR SIX) (2A) (CELL OR SAMPLE)OR MULTICELL OR MULTISAMPLE)
L8 6742 S L6 AND CATALY?
L9 13 S L7 AND L8
L10 13 S L6 AND((MULTIPLE OR MULTI OR PLURAL? OR THREE OR FOUR OR FIVE OR SIX) (2A) (CELL OR SAMPLE)OR MULTICELL OR MULTISAMPLE)/TI,IT,ST
L11 38 S L4-5,L9-10

=> d bib,ab l11 1-38

L11 ANSWER 20 OF 38 CA COPYRIGHT 2004 ACS on STN

AN 120:145888 CA

TI Accurate measurement of heat capacities using oscillating **differential scanning calorimetry**

AU Sichina, W. J.

CS Sci. Instrum. Div., Seiko Instrum. USA Inc., Torrance, CA, 90505, USA

SO American Laboratory (Shelton, CT, United States) (1993), 25(12), 26-30

AB One means of obtaining more accurate heat capacity data for various materials, esp. solid materials used in ind., is through the use of oscillating **DSC** (ODSC), which involves heating and/or cooling of samples at a const. underlying rate while simultaneously imposing sinusoidal time-temp. relationship. The instrumentation and the method of measurements are described on the example of heat capacity detns. of four specimens of sapphire.

L11 ANSWER 22 OF 38 CA COPYRIGHT 2004 ACS on STN

AN 114:50382 CA

TI A **multi-sample** high-pressure **DTA** for measuring oxidation induction times

AU Gimzewski, Edmund

CS BP Res. Cent., Sunbury-on-Thames/Middlesex, TW16 7LN, UK

SO Thermochimica Acta (1990), 170, 97-105

AB The design and operation are described of a **DTA** instrument which can run five samples simultaneously to measure their oxidn. induction times in oxygen or air at pressures up to 70 bar and isothermal temps. up to 250°. Although designed for high-productivity testing of automotive lubricants, the instrument is applicable to other oxidn.-inhibited materials such as greases, edible oils and polymers.

L11 ANSWER 25 OF 38 CA COPYRIGHT 2004 ACS on STN

AN 100:198635 CA

TI **Multiple sample differential scanning calorimetry**

AU Johnson, Robert C.; Ivansons, Valdis

CS Cent. Res. Dev. Dep., E. I. Du Pont De Nemours and Co., Wilmington, DE, 19898, USA

SO Analytical Calorimetry (1984), 5, 133-41

AB A new multiple sample **differential scanning calorimeter** (DSC) system, incorporating a microprocessor-based data system, was developed and tested. It can perform on three samples in a single furnace simultaneously in the time usually required to do one. Because all samples experience the same thermal history, more dependable intercomparisons of samples may be made by including ref. or quality control materials and calibration stds. The data system provides teletype control of all aspects of the expt. except the furnace program; it stores the data, makes identification labels, and draws the **DSC** curves. The system comprises a multiple sample, single ref. **DSC** cell, a data system, a furnace-controller and a

recorder. The design and performance of the system are described.

L11 ANSWER 29 OF 38 CA COPYRIGHT 2004 ACS on STN

AN 85:65223 CA

TI A low temperature **DTA** apparatus for simultaneous measurements of **five samples**

AU Horlin, T.; Niklewski, T.; Nygren, M.

CS Arrhenius Lab., Univ. Stockholm, Stockholm, Swed.

SO Chemical Communications (Stockholm University) (1975), (9), 14 pp.

AB A **DTA** app. for simultaneous measurements on 5 samples at 100-600°K is described. The app. is successfully used for studies of reasonably rapid, reversible phase transitions (e.g., those occurring in VO₂ and ternary dioxides of various transition metals). The instrumental details and some exptl. values concerning simultaneous recording of several **DTA** curves are discussed.

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STN INTERNATIONAL LOGOFF AT 17:12:23 ON 28 JAN 2004